

FIXTURE SPECIFICATIONS

INTENDED USE

Our linear architectural LED lights come with a variety of color temperature, dimming, CRI and voltage options. Ideal for commercial, hospitality and residential interior lighting, this 2-inch lens opening fixture offers an RGBW and Bluetooth Light Mesh smart phone app for optimal performance and versatility. This linear fixture comes in standard lengths of 2ft, 3ft, 4ft, 6ft and 8ft and can be joined together for seamless runs of any length. Available with varying options in lumen output.

PRODUCT FAMILY

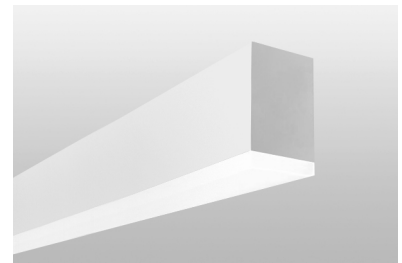
- 12100-20-P Pendant
- 12100-20-W Wall
- 12100-20-S Surface
- 12100-20-R Recessed

AVAILABLE LENGTHS

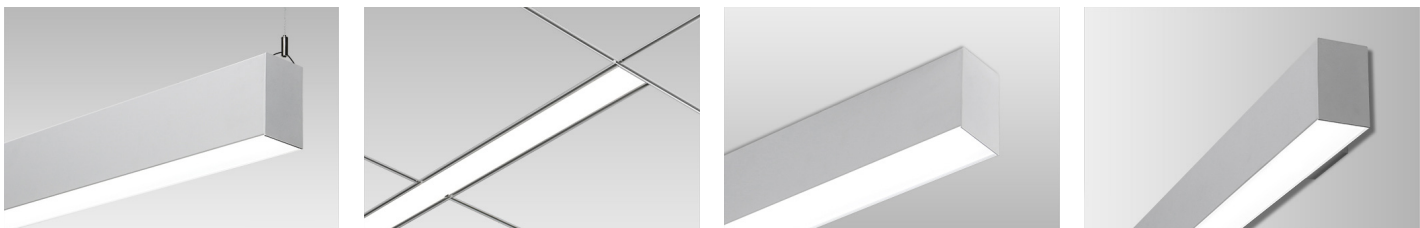
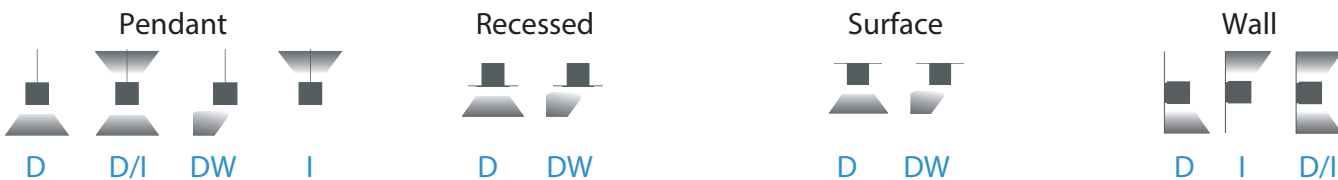
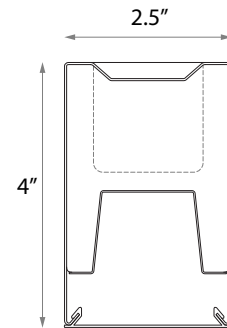
- 2FT, 3FT, 4FT, 6FT & 8FT
- Continuous Run | Consult Factory
- Custom Length | Consult Factory

FEATURES

- Construction:** Die-formed and welded 22-gauge cold rolled steel, painted finish with premium paint
- Continuous Run:** Full ability to tandem mount for continuous run application
- Indirect Pendant Mounting:** For most effective indirect lighting result, mount at no less than 18" from the ceiling
- Custom Design:** Offered with pre-fabricated and fully illuminated corners
- Lens:** Glare-free, frosted acrylic snap-in flat or 1/2" snap-in drop lens for even distribution
- Voltage:** 50/60 Hz Constant current 0-10V @ 120-277V, TRIAC & ELV @ 120V RGBW Tunable White @ 120-277V
- Dimming for Static Color:** 0-10V, TRIAC (Forward-phase), ELV (Reverse-phase) **RGBW**
- Smart Phone App:** Bluetooth App for iOS and Android (See Page 6)
- Life:** +60,000 Reported L70 Hours @ 55°C
- Operating Temperature:** 4°F (-20°C) ~ 122°F (50°C).
- Warranty:** 5 years (Static Colors) and 3 years (RGBW & Tunable White) Carefree for parts & components (Labor not included)
- Listings:** cULus Listed, UL listed for damp location, DLC Listed, ADA compliant (Less than 4" off wall), Assembled in USA (ARRA) standard, Made in USA (BAA) optional



Optional Drop Down Lens



Alcon Lighting 12100-20 hitectural LED Linear Direct/Indirect Light



ORDERING INFORMATION Example: (12100-20-P-D-D4-S-4-27K-010-WH-WH-8-FL)

MODEL	12100-20 2.5" x 4"		
MOUNTING	P Pendant W Wall S Surface	RT Recessed T-Bar Grid RS Recessed Screw Slot Grid	RF Recessed Flanged RTL Recessed Trimless
DOWNLIGHT OPTICS	D Direct DW Direct Wallwash ¹⁶	DI Direct / Indirect DWI Direct Wallwash / Indirect ¹⁶	I Indirect Pendant Mounting
DOWNLIGHT LUMENS <i>Wattage & Lumens per foot</i>	STATIC WHITE D4 4.5 Watts 640 lms D6 6.75 Watts 820 lms D9 9 Watts 1061 lms D12²¹ 12 Watts 1405 lms D13 13.5 Watts 1537 lms Dx Specify Lumens ¹⁷ (Min 113 lms - Max 2000 lms)	TUNABLE WHITE TW-4 4.5 Watts 640 lms ¹⁴ TW-6 6.75 Watts 820 lms ¹⁴ TW-9 9 Watts 1061 lms ¹⁴ TW-12 12 Watts 1405 lms ¹⁴ TW-13 13.5 Watts 1537 lms ¹⁴ TW-DLO 4.4 Watts 494 lms ¹⁵ TW-DHO 8.8 Watts 988 lms ¹⁵	RGBW¹³ RGBW-D9 9.3 Watts 563 lms RGBW-D18 18.6 Watts 1126 lms
UPLIGHT OPTICS¹⁹	Blank Not Required CC Clear cover for no optic	15 15° 30 30° 60 60°	20 20° Asymetric 120 120° Batwing
UPLIGHT LUMENS^{1,2} <i>Wattage & Lumens per foot</i>	STATIC WHITE Blank Not Required I4 4.5 Watts 530 lms I6 6.75 Watts 733 lms ³	TUNABLE WHITE Blank Not Required TW-4 4.5 Watts 530 lms ¹⁴ TW-6 6.75 Watts 733 lms ¹⁴ TW-ILO 4.4 Watts 494 lms ¹⁵ TW-IHO 8.8 Watts 988 lms ¹⁵	RGBW¹³ Blank Not Required RGBW-I9 9.3 Watts 563 lms
SHAPE (Specify in Feet)	S_{xxx} Single Run <i>xxx = 2', 3', 4', 6' or 8'</i> CR_{xxx} Continuous Run <i>xxx = Length</i> RC_{xxx} Rectangle ⁵ <i>xxx = Width & Length</i> SQ_{xxx} Square ⁵ <i>xxx = Width & Length</i>	X_{xxx} Cross ⁵ <i>xxx = Leg 1 & Leg 2</i> T_{xxx} Tee ⁵ <i>xxx = Top leg & Base Leg</i> U_{xxx} U ⁵ <i>xxx = Base Leg & Side Leg</i>	90_{xxx} 90° Angle ⁵ <i>xxx = Leg 1 & Leg 2</i> 135_{xxx} 135° Angle ⁵ <i>xxx = Leg 1 & Leg 2</i> CW_{xxx} Ceiling to Wall ⁵ <i>xxx = Ceiling & Wall</i> CU Custom ⁵
COLOR TEMPERATURE	STATIC WHITE 27K 2700K Warm White ¹⁸ 30K 3000K Soft White 35K 3500K Neutral White 40K 4000K Cool White 50K 5000K Daylight	TUNABLE WHITE TW2750 2700-5000K (Wired) ⁷ TW2065 2000-6500K (Wired) ⁷ TW2762 2700-6200K (Wireless) ^{4,8}	RGBW¹³ RGBW30 RGB + W (3000K) RGBW40 RGB + W (4000K)
DRIVER	STATIC WHITE Blank 0-10V (Dim to 1%) ^{Standard} TRI Triac (120V) ELV Electronic Low Voltage (120V)	TUNABLE WHITE 050 Tunable White 0-10V	RGBW¹³ 24V 24V DC Power Supply ⁸ DMX 4-Channel DMX512 Decoder
FINISH	WH White (Matte) ^{Standard} SL Silver (Matte)	BK Black (Matte) RAL# Specify RAL # (Pg. 3)	
PENDANT MOUNTING	Blank Not Required	AC4 4' Adjustable Aircraft Cable AC8 8' Adjustable Aircraft Cable ACx' Specify <i>x'</i> in Feet (Max 30')	ST2 2' Stem ¹² ST4 4' Stem ¹² STx' Specify <i>x'</i> in Feet (Max 8') ¹²
PENDANT CEILING TYPE	Blank Not Required	T9 9/16" T-bar Grid T15 15/16" T-bar Grid	H Hard / Dry Wall SH Sloped Hard / Dry Wall
CORD / CANOPY FINISH	Blank White Cord / White Canopy WH/BK White Cord / Black Canopy	BK/BK Black Cord / Black Canopy BK/WH Black Cord / White Canopy	WH/RAL# White Cord / Specify RAL # (Page 3) BK/RAL# Black Cord / Specify RAL # (Page 3)
CRI	Blank 80+ ^{Standard}	9 90+ ⁹	
LENS	Blank Flat ^{Standard}	DL 1/2" Drop Down	
OPTIONS	EM8 8W Emergency Battery EM15 15W Emergency Battery EM20 20W Emergency Battery	EM25 25W Emergency Battery OS Occupancy & Daylight Harvesting Sensor ²⁰ DS Daylight Dimming Photo Sensor ²⁰	AB Separate Uplight & Downlight Dimming Control ¹⁰ GTD Bodine Generator Transfer Device COC Chicago Code Compliance Separated EM Feed
QUALIFICATIONS	Blank Assembled in USA (ARRA) ^{Standard}	BAA Made in USA (Buy American Act)	
WARRANTY	Blank 5 Year Warranty ^{Standard}	W7 7 Year Warranty	W10 10 Year Warranty
CONTROLS	STATIC WHITE Blank Not Required	TUNABLE WHITE⁴ TW-WWR-BK Wireless Black Wall Remote TW-WWR-WH Wireless White Wall Remote TW-DWR-BK Wireless Black Desktop Remote TW-2N1-WH Wired White Wall Switch	RGBW¹³ RGBW-APP iOS/Android Bluetooth App RGBW-MZ Wireless RF Remote Control Multi Zone RGBW-DMXAC 4-Channel DMX512 Decoder (100-240VAC) RGBW-DMX5V 4-Channel DMX512 Decoder (5VDC adapter)

1 Only available for Pendant and Wall Mounts with General Downlight Optics
 2 RGBW downlight can be paired with a static color temperature uplight or RGBW uplight
 3 Only compatible with D6 & D12 Downlight Wattages
 4 Wireless control must be specified (page 5)
 5 Minimum Length of 2 Feet

6 Draw your custom shape and send us your idea to rfq@alconlighting.com
 7 Must be Paired with 050 Driver
 8 Must specify for RGBW & Wireless Tunable White 24V Driver
 9 Not available for RGBW
 10 For RGBW, AB is only available though RGBW-MZ control or RGBW-APP
 11 Control system must be specified for this feature
 12 Stem finish will be the same as fixture finish

13 Bluetooth app control or wireless control must be specified for this feature (cannot be combined)
 14 Only for Wired Tunable White Control
 15 Only for Wireless Tunable White Control
 16 Not available for RT, RS, and RTL mountings.
 17 Max lumen for 6' & 8' lengths is 1467 lms.
 18 Only available in 90CRI
 19 Not available for RGBW
 20 Not available for wall mount
 21 Not available for recessed mount


Available Finishes

Standard

	Matte White	RAL #9003
--	-------------	-----------

Set up fee and longer lead time will be applied on non-standard finishes.

Metropolitan

	Black	RAL #9011
--	-------	-----------

	Silver	RAL #9022
--	--------	-----------

	Asher Grey	RAL #7004
--	------------	-----------

	Mason	RAL #7039
--	-------	-----------

	Slate	RAL #7031
--	-------	-----------

	Tech Grey	RAL #7016
---	-----------	-----------

	Chocolate Spice	RAL #8017
--	-----------------	-----------

	Urban Native	RAL #8025
--	--------------	-----------

	Carmin	RAL #8028
--	--------	-----------

	Reseda Green	RAL #6011
--	--------------	-----------

Vibrant

	Violet Dreams	RAL #4006
--	---------------	-----------

	Purple Red	RAL #3004
--	------------	-----------

	Carmine Red	RAL #3002
--	-------------	-----------

	Rose	RAL #3017
--	------	-----------

	Pure Orange	RAL #2004
--	-------------	-----------

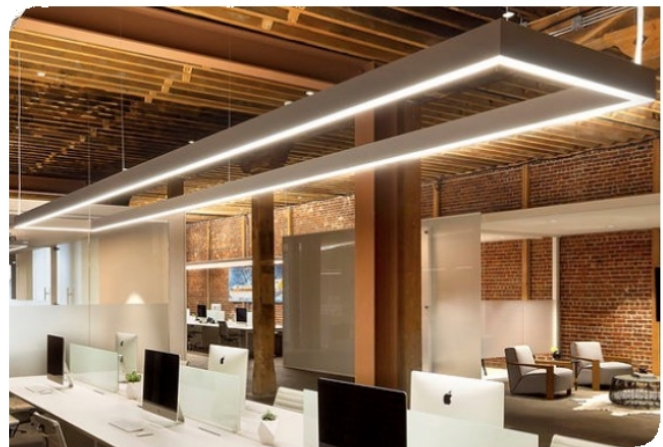
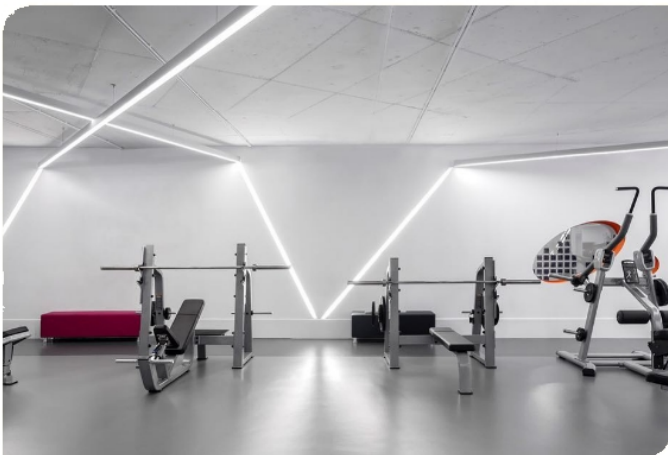
	Traffic Yellow	RAL #1023
---	----------------	-----------

	Daisy	RAL #1018
--	-------	-----------

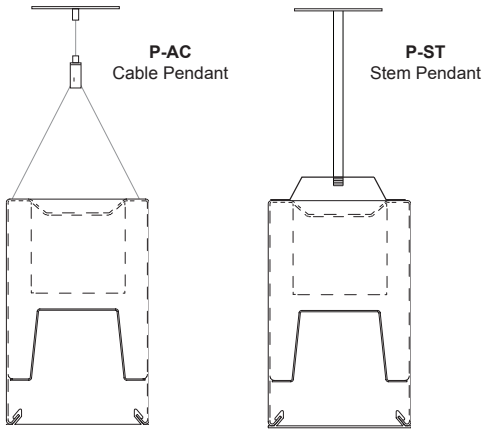
	Antique Spring	RAL #6019
--	----------------	-----------

	Island Skye	RAL #6027
--	-------------	-----------

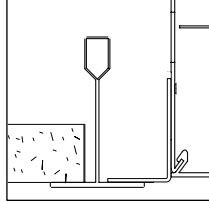
	Sky Blue	RAL #5015
--	----------	-----------



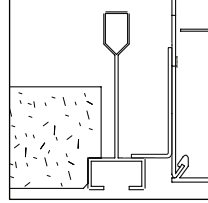
Mounting



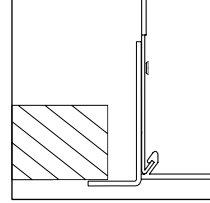
RT - T-Bar Grid Mount



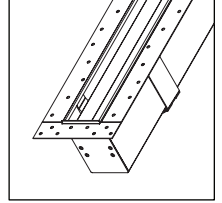
RS - Screw Slot Mount



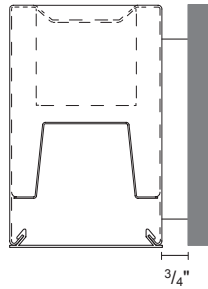
RF - Flange Detail



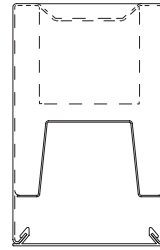
RTL - Trimeless Detail



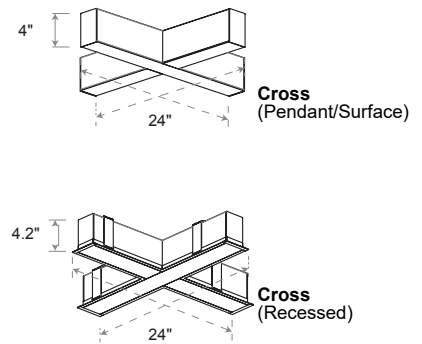
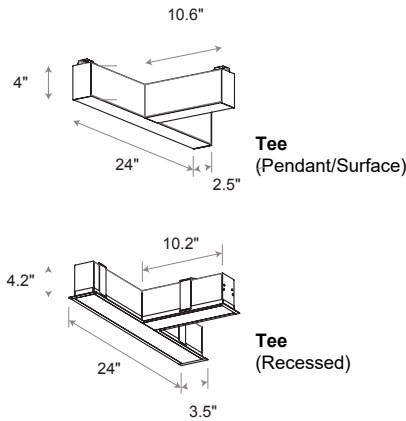
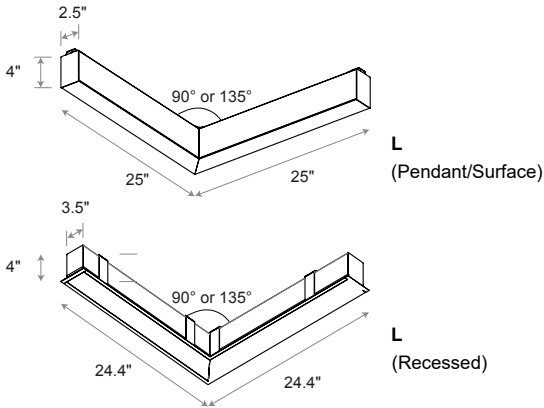
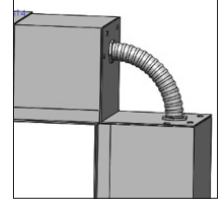
W - Wall



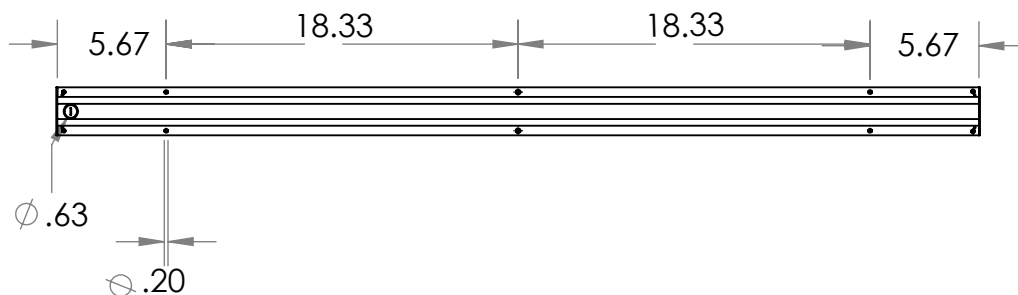
S - Surface



CW - Ceiling to Wall



Knockout Locations (4Ft Body)



Compatible Dimmers

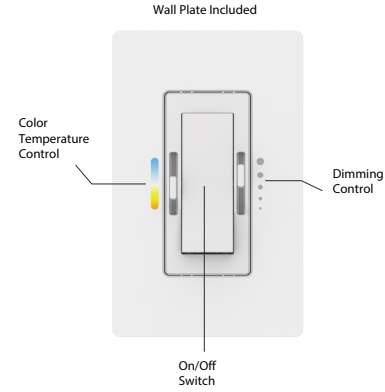
Static White

Triac	ELV	0-10V
TG-600P	DVELV-303P	NTSTV
LG-600P	SELV-300P	NFTV
TGCL-153P	MAELV-600	DVSTV
DV-600P	FAELV-500	
DVCL-153P		
S-603PG		
CT-103P		
S-600P		
<hr/>		
6161	IPE04	IP710-DLZ
6633-P	VPE06-1LZ	
6683		
6631-2		
IPI06-1LZ		



TUNABLE WHITE

TW-2N1-WH Dual Wall Switch



Input: 120VAC ~ 60Hz
 Max Load: 600W
 Control: 0-10V
 Wired Tunable White: TW2750 & TW2065

Wireless Tunable White Control

Weight	0.35 lbs
Dimming Type	PWM
Signal Type	RF (Radio Frequency) 434 MHz/868MHz
Range	100ft from fixture
Maximum Load	24V @ DC 480W
Working Temperature	-20°F to 140°F (-28C to 60°C)
Battery	3V (CR2032 Battery)

Wall

L - 4 3/8" x W - 3 1/4" x D - 1 3/4"



Desktop

L - 4 3/8" x W - 3 1/4" x D - 2 1/2"



RGBW-APP | Bluetooth Smart Phone App



Smart Life



Tuya Smart

Bluetooth	
Software	IOS 8.0 and up, Android 4.4 and up
App	Smart Life or Tuya Smart supported
Features	Group, Scenes
Bluetooth Distance	> 49ft in open area
Additional Feature	Home Management / Third party control -> Alexa, Google Assistant (by others)

RGBW-RF | Wireless RF Remote Control 4-Zone



WL-MZ (RF remote control)

Dimensions	W 2" x D 0.825" x H 4.725"
Weight	0.1lbs
Signal Type	RF (Radio Frequency) 2.4GHz
Range	98ft from fixture open air
Zone / Mode	4 zones / 9 modes
Working Temp.	-4°F to 131°F (-20°C to 55°C)
* Battery	2 x AAA battery

* Not included

RGBW-DMX | 4-Zone DMX512 Touch Panel



RGBW-DMXAC

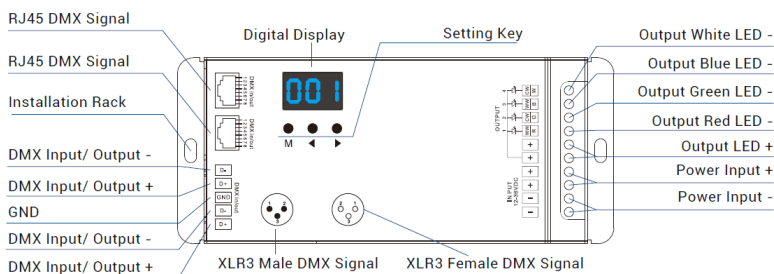
Zone	4 zone
Signal	DMX512 protocol
Input Voltage	100-240VAC
Dimensions	L 3.4" x H 3.4" x D 1.45"
Features	10 built-in mode, scene
Operating Temp.	-22°F ~ 131°F (-30°C ~ 55°C)



RGBW-DMX5V


Zone	4 zone
Signal	DMX512 protocol
Dimensions	L 7" x H 1.3" x D 1.9"
Features	12 built-in mode, scene
Operating Temp.	-22°F ~ 131°F (-30°C ~ 55°C)

RGBW-DMX | 4-Channel DMX512 Decoder



Dimensions	L 6.5" x W 2.7" x D 1.5"
Output Current	8A / 4 channels
Input Voltage	12-36V DC
Output Power	768W (24V)
Frequency	PWM output

Lutron Vive Control (Optional)

Smart Sensors	Protocol	Compatible Networks	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire
	Lutron Clear Connect	Lutron Vive System Network	Enabled	Enabled	No	Wireless



Controls Installed on the Fixture



VDO
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VDO Vive Integral Fixture Control (with Sensing).



VRF
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VRF Vive Integral Fixture Control (RF Only) Install on the Fixture.



FCJ50
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJ50 Control Module Installed on the Fixture.



FCJ5E
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJ5E Control Module Control Module Installed on the Fixture.



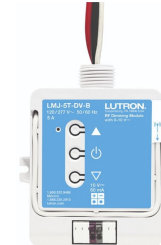
FCJ50EM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJ50 Control Module Installed on the Fixture.



FCJ5EEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJ5EEM Control Module Control Module Installed on the Fixture.



RMJS8TEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8TEM Control Module Control Module Installed on the Fixture.



RMJS8T
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8T Control Module Installed on the Fixture.



RMJSECO32
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJSECO32 Control Module Control Module Installed on the Fixture.

Photometric (for Static Color Temperatures)

Direct

12100-20-D4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	555 FC	3.9 FT 3.1 FT
3.3FT	147 FC	7.6 FT 6.1 FT
5.0FT	64.1 FC	11.6 FT 9.2 FT
6.7FT	35.7 FC	15.5 FT 12.3 FT
8.3FT	23.3 FC	19.2 FT 15.2 FT
10.0FT	16.0 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	993 FC	3.9 FT 3.1 FT
3.3FT	263 FC	7.6 FT 6.1 FT
5.0FT	115 FC	11.6 FT 9.2 FT
6.7FT	63.9 FC	15.5 FT 12.3 FT
8.3FT	41.6 FC	19.2 FT 15.2 FT
10.0FT	28.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,117 FC	3.9 FT 3.1 FT
3.3FT	296 FC	7.6 FT 6.1 FT
5.0FT	129 FC	11.6 FT 9.2 FT
6.7FT	71.9 FC	15.5 FT 12.3 FT
8.3FT	46.8 FC	19.2 FT 15.2 FT
10.0FT	32.3 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,986 FC	3.9 FT 3.1 FT
3.3FT	527 FC	7.6 FT 6.1 FT
5.0FT	230 FC	11.6 FT 9.2 FT
6.7FT	128 FC	15.5 FT 12.3 FT
8.3FT	83.3 FC	19.2 FT 15.2 FT
10.0FT	54.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

Direct/Indirect

12100-20-D6-I6-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	470 FC	3.9 FT 3.3 FT
3.3FT	296 FC	7.6 FT 6.5 FT
5.0FT	129 FC	11.5 FT 9.8 FT
6.7FT	71.9 FC	15.5 FT 13.2 FT
8.3FT	46.8 FC	19.1 FT 16.3 FT
10.0FT	32.3 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D13-I4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	982 FC	3.8 FT 3.1 FT
3.3FT	261 FC	7.4 FT 5.9 FT
5.0FT	114 FC	11.3 FT 9.0 FT
6.7FT	63.2 FC	15.1 FT 12.1 FT
8.3FT	41.2 FC	18.7 FT 14.9 FT
10.0FT	28.4 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

12100-20-D9-I6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	940 FC	3.9 FT 3.3 FT
3.3FT	249 FC	7.6 FT 6.5 FT
5.0FT	109 FC	11.5 FT 9.8 FT
6.7FT	60.5 FC	15.5 FT 13.2 FT
8.3FT	39.4 FC	19.1 FT 16.3 FT
10.0FT	27.2 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D6-I4-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,965 FC	3.8 FT 3.1 FT
3.3FT	521 FC	7.4 FT 5.9 FT
5.0FT	227 FC	11.3 FT 9.0 FT
6.7FT	126 FC	15.1 FT 12.1 FT
8.3FT	82.4 FC	18.7 FT 14.9 FT
10.0FT	56.8 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

COLOR TEMPERATURE GUIDE

2700K	3000K	3500K	4000K	5000K
WARM WHITE	SOFT WHITE GLOW	NEUTRAL GLOW	COOL WHITE GLOW	DAYLIGHT GLOW
friendly personal intimate	soft warm pleasing	sociable inviting non-threatening	neat clean efficient	bright cool alert
HOMES LIBRARIES RESTAURANTS	HOMES HOTEL ROOMS LOBBIES RETAIL STORES	EXECUTIVE OFFICES RECEPTION AREAS SUPERMARKETS	OFFICES CLASSROOMS MASS MERCHANDISERS SHOWROOMS	GRAPHICS INDUSTRY HOSPITALS GALLERIES BEAUTY SALONS

Alcon Lighting 12100-20 hitectural LED Linear Direct/Indirect Light

